| In | idex of | Claims     |
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|    |         |            |
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|    |         | <b>   </b> |

| Annli | cation | No   |
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| whhii | callon | 110. |

09/769,478

Examiner

Eric S. McCall

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PAN, WUN FANG

Art Unit

2855

| √  | Rejected |
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| 11 | Allowed  |

| - | (Through numeral)<br>Cancelled |
|---|--------------------------------|
| + | Restricted                     |

| N | Non-Elected  |
|---|--------------|
|   | Interference |

|   | 1 | Appeal   |
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| Cla      | aim      | <u> </u>                                     |  |  |                | Date     | е  |          |  |              |   | Cla          | aim      |  |          |          |  | Date   |  |  |          | _        |
|----------|----------|--|--|--|----------------|----------|--|----------|--|--------------|---|--------------|----------|--|----------|----------|--|--|--|--|----------|----------|
|          | -        | 3/17/04                                      | Г  | Γ  | Γ.             |          | Ť  |          | Γ-   | Γ            |   | 016          |          |  |          |          |  |  | $\Box$   |  |          | Γ        |
| ā        | Original | 슭  | 1  |  | 1              |          |  |          |  |              |   | <u> </u>     | Original |  |          |          |  |  |  |  |          | İ        |
| Final    | Ę.       | 1  |  |  |                |          |  |          |  |              |   | Final        | rig      |  |          |          |  |  |  |  |          |          |
|          |          | יש   | 1  |  |                |          |  |          |  |              |   |              | 0        |  |          |          |  |  |  |  |          | _        |
|          | (1)      | V  | 1  |  |                |          |  |          |  |              |   |              | 51       |  |          |          |  |  |  |  |          |          |
|          | 2        |  |  |  |                |          |  |          |  |              |   |              | 52       |  |          |          |  |  |  |  |          |          |
|          | 3        |  |  |  |                |          |  |          |  |              |   |              | 53       |  |          |          |  |  |  |  |          |          |
|          | 4        |  |  |  |                |          |  |          |  |              | ı |              | 54       |  |          |          |  |  |  |  |          |          |
|          | 5        |  |  |  |                |          |  | L        |  |              |   |              | 55       |  |          |          |  |  |  |  |          | L        |
|          | 6        |  |  |  |                |          |  | <u> </u> | _  | L.           |   |              | 56       |  |          |          |  |  |  |  |          | L        |
|          | 7        | <u> </u>                                     |  |  |                |          | L.   | _        |  |              |   |              | 57       | Ш  |          |          | <u> </u>   |  |  |  |          | L        |
|          | 8        | ╙  |  | _  | _              | _        |  |          |  | _            |   |              | 58       |  |          |          | ļ  |  |  |  | _        | L        |
| L        | 9        | _  | _  |  | _              | igspace  | _  | <u> </u> | L.   |              |   |              | 59       |  |          |          | _  |  |  |  |          | L        |
| <u> </u> | 10       | _  | _  | _  |                |          | _  | <u> </u> | ļ  | _            |   |              | 60       | _  |          |          |  | -  | _  |  |          | L        |
| <u> </u> | 11       | <u> </u>                                     | <u> </u>   | _  | _              | _        | <u> </u>   | <u> </u> | _  | <u> </u>     |   |              | 61       |  |          | _        | _  | L  | _  |  |          | L        |
| 1        | 12       | _  | ├  | _  |                | <u> </u> | <u> </u>   | ļ        | _  | <u> </u>     |   |              | 62       |  |          | _        |  |  | _  | _  |          | <u> </u> |
|          | 13       | _  | ـــ  | _  | _              | ┡        | <u> </u>   | _        | <u> </u>   | <u> </u>     |   |              | 63       | H  |          | _        | <u> </u>   |  |  |  |          | ┝        |
|          | 14       | <u>.                                    </u> | ┡  | <u> </u>   | <u> </u>       | _        | ⊢  | -        | ₩  |              |   |              | 64       | _  |          |          |  | <u> </u>   | ├-   | _  | $\vdash$ | ⊢        |
|          | 15       |  | -  | <b>!</b>   | ├-             | -        | ┝  | -        |  |              |   |              | 65<br>66 | -  |          |          |  | <u> </u>   |  | -  |          | ⊢        |
| _        | 16       | H  | 1  | ├  | ⊢              | -        |  | $\vdash$ | ⊢  | <del> </del> |   |              | 67       | -  |          |          | -  | -  | -  |  |          | $\vdash$ |
| -        | 17<br>18 | -  | -  | ├  | ┢              |          | ┢  | ┝        |  | ┢            |   |              | 68       | ⊢  |          |          | ⊢  |  | -  | -  |          | ⊢        |
|          | 19       | ┈  | <b>!</b>   | <del> </del>                                     | -              | ┼-       | -  | $\vdash$ |  | ├            |   |              | 69       | -  |          |          | -  | -  |  | -  |          | ┢        |
|          | 20       | ├-   |  |  |                | ┼-       | ├  | ⊢        | $\vdash$   |              |   |              | 70       | -  |          |          | ┢  |  |  |  |          | ┝        |
| -        | 21       | ╁  | +  | $\vdash$   | ╁              | -        | ┢  | ┢        | ├─   | -            |   |              | 71       | $\vdash$   | -        | $\vdash$ | <del> </del>                                     | -  |  | $\vdash$   | _        | ┝        |
| <u> </u> | 22       | ╁  | ╁  |  | -              |          | <del> </del>                                     | -        | ┢╌   | ┢            |   |              | 72       | -  | _        | ├        | -  |  | -  | $\vdash$   | _        | H        |
|          | 23       | ┢┈   | <del>                                     </del> | $\vdash$   | <del>  -</del> | ╁──      | ┢  | 1        | -  | -            |   |              | 73       | T  |          |          | ┢  | -  |  |  |          | r        |
|          | 24       | ┢╌   | T  | <del>                                     </del> |                | -        | ╁  | $t^-$    | $\vdash$   |              | ĺ |              | 74       | _  |          |          |  |  | $\vdash$   | _  |          | T        |
| -        | 25       | <del> </del>                                 | -  | $\vdash$   | <u> </u>       | $\vdash$ | <del>                                     </del> |          | T  |              | ĺ | -            | 75       | _  | _        |          |  |  | -  |  |          | Г        |
|          | 26       | ┢  | 1  | $\vdash$   |                | 1        | <u> </u>   |          | Г  | $\vdash$     | 1 |              | 76       |  |          |          |  |  |  |  |          | Г        |
|          | 27       | ┢  | 1  | T  |                |          |  | 1        |  |              | İ |              | 77       |  |          |          |  |  |  |  |          | Г        |
|          | 28       | 1  | 1  | 1  | Г              |          |  |          |  |              | 1 |              | 78       | Γ  |          |          |  |  |  |  |          | Γ        |
|          | 29       |  | 1  |  |                |          |  |          |  |              | 1 |              | 79       |  |          |          |  |  |  |  |          |          |
|          | 30       | Г  |  |  |                |          |  |          |  |              |   |              | 80       |  |          |          |  | L  |  |  |          |          |
|          | 31       |  |  |  |                |          |  |          |  |              |   |              | 81       |  |          |          |  |  |  | L.   | L        | L        |
|          | 32       |  |  |  |                |          | <u>L</u>   |          | L  |              |   |              | 82       |  |          |          | L  |  |  |  |          | L        |
| <u> </u> | 33       | <u> </u>                                     | <u> </u>   | _  | L              | _        |  | <u> </u> | L  | _            |   |              | 83       |  |          | <u>L</u> | <u> </u>   |  | _  | <u> </u>   |          | Ļ        |
|          | 34       | <u> </u>                                     | <u> </u>   | <u> </u>   |                | _        | ╙  | <u> </u> |  | _            |   |              | 84       | ļ  | _        |          | <u> </u>   | _  | _  | <u> </u>   | _        | L        |
|          | 35       | <u> </u>                                     | _  | _  | $oxed{oxed}$   | 1_       | <u> </u>   | L        | ļ  | ļ            |   |              | 85       | _  |          |          | _  |  |  | <u> </u>   | <u> </u> | Ļ        |
|          | 36       | <u> </u>                                     | ↓_   | <u> </u>   | <u> </u>       | <u> </u> | <u> </u>   | _        | _  |              |   |              | 86       | _  |          |          | L  | ļ  |  |  | ļ        | ╀        |
|          | 37       | _  |  | <u> </u>   | ↓_             | ļ.,      | -  | _        | ┞  | <u> </u>     |   |              | 87       |  | ļ        | _        | _  | -  |  | _  | _        | ╀        |
| ļ        | 38       | _  | <u> </u>   | ļ  | ļ              |          | 1  | ₩        | ļ  | ├-           |   | -            | 88       | -  | <u> </u> | <u> </u> | <u> </u>   | ├-   | <u> </u>   |  | <u> </u> | ╀        |
| <u> </u> | 39       | ┡  | ļ  |  | -              | ₩        | ₩  | -        | <del>  -</del>                                   | ├-           |   |              | 89       | -  | _        | <u> </u> | ├  | ├  | -  | ┝  | ┝        | ╀        |
|          | 40       | <u> </u>                                     | ╀  | -  | ╁              | ╁—       | ┼  | -        | ⊢  | ├-           |   |              | 90<br>91 | ├  |          | -        | <del>                                     </del> | ├-   | -  | H  | ├        | ╀        |
| -        | 41       | ⊢  | ╄  | ļ  | -              | ╁┈       | ┢  | $\vdash$ | ├-   | ┝            |   |              | 92       | ⊢  | -        | -        | <del> </del>                                     |  | ├  | -  | -        | ╁        |
| -        | 42<br>43 | ₽  | ┼  | -  | ╁              | $\vdash$ | -  | ╁        | -  | ┼            | ł |              | 93       | -  | $\vdash$ | $\vdash$ | $\vdash$   | $\vdash$   | -  | 1  | $\vdash$ | +        |
| -        | 44       | -  | ╁  | ╁  | ╁              | $\vdash$ | $\vdash$   | ╁        | $\vdash$   | ┼─           |   | -            | 94       | ├  |          | $\vdash$ | <del> </del>                                     | <del> </del>                                     | $\vdash$   | $\vdash$   | $\vdash$ | H        |
|          | 45       | ╁  | $\vdash$   | ┼  | +              | +-       | +-   | ╁        | <del>                                     </del> | $\vdash$     | 1 | <u> </u>     | 95       | <del>  -</del>                                   | -        | ┢        | $\vdash$   | $\vdash$   | <del> </del>                                     | $\vdash$   | $\vdash$ | t        |
|          | 46       | $\vdash$                                     | +  | +  | ╁╌             | ╁        | +  | +        | 1  | $\vdash$     | 1 | <del> </del> | 96       | $\vdash$   |          | -        | <del>                                     </del> | <del>                                     </del> | $\vdash$   | $\vdash$   | -        | t        |
| -        | 47       | +-   | ╁  | <del> </del>                                     | ╁╌             | +        | +-   | $\vdash$ | <del>                                     </del> | 1            | 1 |              | 97       | <del> </del>                                     |          | $\vdash$ | <del>                                     </del> | $\vdash$   | $\vdash$   | <del>                                     </del> | -        | t        |
| -        | 48       | $\vdash$                                     | +-   | +  | t              | +-       | +-   | +-       | t  | T            | 1 | $\vdash$     | 98       | <del>                                     </del> |          | $\vdash$ | $\vdash$   | T  | <del>                                     </del> |  |          | t        |
|          | 49       | T  | 1  | $\vdash$   | $\vdash$       | $t^{-}$  | T  | † -      | <del>                                     </del> | T            | 1 | <u> </u>     | 99       |  |          | $\vdash$ | <del>                                     </del> |  | T  | -  | 1        | t        |
| -        | 50       | $\vdash$                                     | +-   | $\vdash$   | +              | T        | 1  | T        | T  | $\vdash$     | 1 | $\vdash$     | 100      | $\vdash$   | Н        | _        | t  | T  | Г  | <del>                                     </del> | <u> </u> | t        |
| Ь        |          | _  |  | _  |                | <u>-</u> | _  |          |  | ٠            | , | ——           |          | _  | —        |          | _  |  | 1  |  |          |          |

| - 1 |  | ****   | -        | _        | _  |  |  | <del>-</del>                                     |  |  | _  |
|-----|--|--|----------|----------|--|--|--|--|--|--|--|
|     | Final  | Original                                     |          |          |  |  |  |  |  |  |  |
|     |  | 51   | 寸        |          |  |  |  | П  | $\neg$   |  |  |
|     |  | 52   | _        |          | $\vdash$   |  |  |  |  |  |  |
| ı   | $\vdash$   | 53   | $\dashv$ | $\neg$   |  | $\Box$   |  | $\neg$   |  | $\Box$   |  |
| 1   |  | 51<br>52<br>53<br>54<br>55                   | $\dashv$ | -        |  |  |  |  |  | $\vdash$   |  |
|     |  | 55   | $\neg$   | _        | -  |  |  |  |  | $\neg$   | $\neg$   |
|     |  | 56   | -        | -        |  |  |  | -  | _  |  |  |
|     |  | 56<br>57                                     |          |          | -  |  |  |  |  | -  |  |
|     | -  | 58   |          |          |  | _  | _  |  |  |  | _  |
|     |  | 59   | $\dashv$ |          |  |  |  |  |  | -  |  |
|     |  | 59<br>60                                     | $\dashv$ |          |  | _  |  |  |  |  | _  |
|     | $\vdash$   | 61   | -        |          |  |  | _  | _  |  |  | _  |
|     | <del>                                     </del> | 62   |          | -        |  | -  |  |  |  | -  | _  |
|     | $\vdash \vdash \vdash$                           | 62<br>63                                     | $\dashv$ |          | $\vdash$   |  |  |  |  | -  |  |
|     | <del>  </del>                                    | 64   | $\dashv$ |          | -  |  |  |  |  |  | $\dashv$   |
|     | $\vdash \vdash \vdash$                           | 65   | _        |          |  |  | -  |  | $\dashv$   |  |  |
|     | $\vdash$   | 66   |          |          |  |  | _  | _  |  |  |  |
|     | $\vdash\vdash$                                   | 67   | $\vdash$ |          | H  |  |  | $\vdash$   |  |  |  |
|     | $\vdash$   | 69   |          |          |  |  |  | -  |  |  |  |
|     |  | 64<br>65<br>66<br>67<br>68<br>69<br>70<br>71 |          |          |  |  | -  | -  | -  |  |  |
|     |  | 70   |          |          | $\vdash$   | H  |  | -  |  |  |  |
|     | $\vdash \vdash$                                  | 71   |          |          |  | $\vdash$   | -  |  |  |  |  |
|     | $\vdash$   | 72   |          |          | ├  | -  |  | $\vdash$   | -  | _  | -  |
|     | $\vdash\vdash\vdash$                             | 72   | $\vdash$ | _        | <u> </u>   | <del> </del>                                     | -  | $\vdash$   | Н  | -  | $\vdash$   |
|     | <del></del>                                      | 72<br>73<br>74                               | -        |          | <del> </del>                                     | H  |  | $\vdash$   |  |  | -  |
|     | $\vdash\vdash\dashv$                             | 75   | $\vdash$ |          | <del>                                     </del> | $\vdash$   | -  |  |  | $\vdash$   | -  |
|     | $\vdash\vdash\vdash$                             | 75<br>76                                     |          | _        | Ь  |  |  | $\vdash$   | H  | -  | $\vdash$   |
|     | <del>  </del>                                    | 77   |          |          | Ь—   | Н  | $\vdash$   |  |  | $\vdash$   | -  |
|     | $\vdash \vdash \vdash$                           | 79   | $\dashv$ |          | <del> </del>                                     | <del> </del>                                     | -  | $\vdash$   | H  | -  | $\vdash$   |
|     | ┝─┤  | 78<br>79                                     | $\dashv$ |          |  |  | $\vdash$   | $\vdash$   | $\vdash$   | $\vdash$   |  |
|     | ┝─┤  | 80   | $\vdash$ |          |  | $\vdash$   | $\vdash$   | -  | $\vdash$   | $\vdash$   |  |
|     | <del>  </del>                                    | 81   | $\vdash$ |          | $\vdash$   | $\vdash$   |  | $\vdash$   | $\vdash$   | $\vdash$   |  |
|     | <del>  </del>                                    | 82   |          |          |  |  | $\vdash$   |  | $\vdash$   | $\vdash$   | -  |
|     |  | 83   | $\vdash$ |          | <del> </del>                                     |  | $\vdash$   |  | -  | $\vdash$   |  |
|     | ├──┤   | 84   | $\vdash$ |          | -  | _  | -  | $\vdash$   | $\vdash$   | _  | -  |
|     | $\vdash$   | 83<br>84<br>85                               | $\vdash$ | _        | -  | $\vdash$   | $\vdash$   | -  |  | $\vdash$   |  |
|     | $\vdash \lnot$                                   | 86   | $\vdash$ |          | -  |  | $\vdash$   |  | -  | $\vdash$   | -  |
|     | $\vdash$   | 86<br>87                                     | Н        |          | -  | <b>-</b>   | -  | $\vdash$   | $\vdash$   |  | $\vdash$   |
|     | $\vdash$   | 88   | Н        |          | $\vdash$   | $\vdash$   | -  |  | <del>                                     </del> | $\vdash$   | $\vdash$   |
|     | $\vdash$   | 89   | Н        | -        | <u> </u>   | H  | $\vdash$   | <del>                                     </del> |  | $\vdash$   | $\vdash$   |
|     | $\vdash \vdash \vdash$                           | 90   | Н        |          |  | <del>                                     </del> | $\vdash$   | ┢  | $\vdash$   | $\vdash$   | -  |
|     |  | 91   | Н        | _        | <del>                                     </del> | $\vdash$   | $\vdash$   | <del>  -</del>                                   | $\vdash$   | $\vdash$   | $\vdash$   |
|     | $\vdash$   | 91<br>92                                     | Н        | -        | $\vdash$   | <del> </del>                                     | <del>                                     </del> | <del>                                     </del> | <del>                                     </del> | -  | $\vdash$   |
|     |  | 93   |          |          |  | <del>                                     </del> | $\vdash$   | <del>                                     </del> | -  |  | ┢  |
|     | $\vdash$   | 94   |          |          | $\vdash$   | <del>                                     </del> | $\vdash$   | $\vdash$   | <u> </u>   |  | $\vdash$   |
|     | $\vdash \vdash$                                  | 95   | -        |          | ┢  | $\vdash$   | $\vdash$   | <del>                                     </del> |  |  | <del>                                     </del> |
|     | $\vdash$   | 96   |          |          |  | <del>                                     </del> | <del>                                     </del> |  | $\vdash$   |  | $\vdash$   |
|     |  | 97   | _        |          | $\vdash$   | <u> </u>   |  | <del>                                     </del> |  | <b> </b>   |  |
|     |  | 98   | Ι        |          | $\vdash$   | $\vdash$   | $\vdash$   | <del>                                     </del> | t  |  |  |
|     | $\vdash \vdash$                                  | 99   |          |          | $\vdash$   | <del>                                     </del> | $\vdash$   | $\vdash$   | <del>                                     </del> | Ι  |  |
|     |  | 100  |          | $\vdash$ | <u> </u>   | <u> </u>   | $\vdash$   | Ι  | Ι-   | <del>                                     </del> | $I^-$  |

|          |                   | Data     |               |                |          |              |          |              |              |              |  |  |
|----------|-------------------|----------|---------------|----------------|----------|--------------|----------|--------------|--------------|--------------|--|--|
| Cla      |                   |          |               | [              | Date     | }            |          |              | $\dashv$     |              |  |  |
| Final    | Original          |          |               |                |          |              |          |              |              |              |  |  |
|          | 101               |          |               |                |          |              |          |              |              |              |  |  |
|          | 102               |          |               |                |          |              |          |              |              |              |  |  |
|          | 103               |          |               |                |          |              |          |              |              |              |  |  |
|          | 103<br>104<br>105 |          |               |                |          |              |          |              |              |              |  |  |
|          | 105               |          |               |                |          |              |          |              | ·            |              |  |  |
|          | 106               |          |               |                |          |              |          |              |              | _            |  |  |
|          | 107               |          |               |                |          |              |          |              |              | _            |  |  |
|          | 108               | _        |               |                |          |              | _        |              | _            |              |  |  |
|          | 109               | Ш        |               |                |          |              |          |              | _            |              |  |  |
|          | 110               | Н        | _             |                |          |              |          |              |              | -            |  |  |
|          | 111               | -        |               |                |          |              |          |              | _            | H            |  |  |
|          | 111<br>112<br>113 | $\vdash$ | -             | Н              |          | -            | -        |              | H            | H            |  |  |
|          | 114               | $\vdash$ | -             | H-             |          | $\vdash$     | -        | -            | H            | $\vdash$     |  |  |
|          | 114<br>115        | Н        |               |                | _        | <del> </del> |          |              |              |              |  |  |
|          | 116               | Н        |               | _              |          |              |          |              | _            |              |  |  |
|          | 116<br>117        |          |               | _              |          |              | _        |              |              |              |  |  |
|          | 1118              |          | $\overline{}$ | $\vdash$       | _        |              |          |              |              |              |  |  |
|          | 119<br>120<br>121 |          |               |                |          |              |          |              | Г            |              |  |  |
|          | 120               |          |               |                |          |              |          |              |              |              |  |  |
|          | 121               |          |               |                |          |              |          |              |              |              |  |  |
|          | 122               |          |               |                |          |              |          |              |              | _            |  |  |
|          | 122<br>123        |          |               |                |          |              |          |              |              |              |  |  |
|          | 124               |          |               |                |          |              |          |              |              | _            |  |  |
|          | 124<br>125<br>126 |          |               |                |          |              | _        |              | <u> </u>     |              |  |  |
|          | 126               |          |               |                |          | <u> </u>     | _        | <u> </u>     |              | <u> </u>     |  |  |
|          | 127<br>128<br>129 |          |               |                | _        | <u></u>      |          |              |              | <u> </u>     |  |  |
| ļ        | 128               |          | ļ             | _              |          | -            |          |              | -            | ⊢            |  |  |
|          | 129               |          | <u> </u>      | _              |          | <u> </u>     | <u> </u> | <del> </del> |              | -            |  |  |
|          | 130<br>131        | -        | ┝             | -              | -        | ⊢            |          |              |              |              |  |  |
|          | 132               | -        |               | -              |          | ├─           |          | <del> </del> |              | -            |  |  |
|          | 132<br>133        | -        | ┝             | -              | -        | -            | $\vdash$ | $\vdash$     | -            | -            |  |  |
| <b>-</b> | 134               | ┢        | $\vdash$      | $\vdash$       | -        | -            | -        | <u> </u>     | H            | $\vdash$     |  |  |
| <b></b>  | 135               | H        |               | $\vdash$       | $\vdash$ | $\vdash$     | $\vdash$ | _            | $\vdash$     | <u> </u>     |  |  |
|          | 136               |          |               | T              | $\vdash$ |              |          |              |              |              |  |  |
|          | 137               | 1        |               | T              |          | <u> </u>     |          |              | L            |              |  |  |
|          | 138               |          |               |                |          |              |          |              |              |              |  |  |
|          | 138<br>139        |          |               |                |          |              |          |              |              |              |  |  |
|          | 140               |          |               |                |          |              |          | Ĺ            |              |              |  |  |
|          | 141               | L        | Ĺ.            | L              | L        | _            |          |              | Щ.           | _            |  |  |
|          | 142               | <u> </u> | _             | <u> </u>       | L        | L_           | <u> </u> | L            |              | ļ            |  |  |
|          | 143               | <u> </u> | _             | <u> </u>       | <u> </u> | <b> </b> _   | <u> </u> | <u> </u>     | $oxed{oxed}$ | <u> </u>     |  |  |
| <u> </u> | 144               | ļ_       | -             | <u> </u>       | <u> </u> | L_           | ⊢        | <u> </u>     | <u> </u>     | <del> </del> |  |  |
|          | 145               | -        | -             | <del>  -</del> | <u> </u> | ₩            | -        | <u> </u>     | <u> </u>     | <del> </del> |  |  |
| <u> </u> | 146               | -        | <u> </u>      | -              | <u> </u> | ├            | ├        |              | $\vdash$     |              |  |  |
|          | 147               | -        |               | -              | -        | -            | -        | -            | $\vdash$     | -            |  |  |
|          | 148<br>149        | ₩        |               | -              | -        | ⊢            | $\vdash$ | -            | $\vdash$     | -            |  |  |
| <u> </u> |                   | ├-       |               | ├-             | -        | -            | -        | ├-           | -            | ⊢            |  |  |
|          | 150               |          |               | <u> </u>       |          | <u> </u>     | $L_{L}$  | L_           |              |              |  |  |